AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A circuit for detecting an electric current constructed to detect a peak value of an input current using a diode having ~~a cathode~~an anode connected to an input side and ~~an anode~~a cathode connected to an output side and a capacitor having one end connected to the ~~anode~~ cathode of the diode and the other end being grounded, wherein the circuit further comprises a zener diode having ~~an anode~~a cathode connected to the ~~anode~~ cathode of the diode and ~~a cathode~~an anode being grounded.

2. (Canceled)

3. (Original) A circuit for detecting an electric current constructed to detect a peak value of an input current using a diode having ~~a cathode~~an anode connected to an input side and ~~an anode~~a cathode connected to an output side and a capacitor having one end connected to the ~~anode~~ cathode of the diode and the other end being grounded, wherein the circuit further comprises:

a zener diode having ~~an anode~~a cathode connected to the ~~anode~~ cathode of the diode and ~~a cathode~~an anode being grounded; and

a shunt resistor having one end connected to the ~~anode~~ cathode of the diode and the other end being grounded.

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

A circuit for detecting an electric current by which a loss portion of a forward current caused by a backward leakage current of a diode generated by the influence of temperature increase can be compensated such that error in the peak value of a load current detected by surrounding high temperature can be minimized, and ~~credibility~~ reliability can be increased for electric instruments that call for an accurate control of the load current and that generate a high temperature such as induction heating cookers, induction heaters and the like.